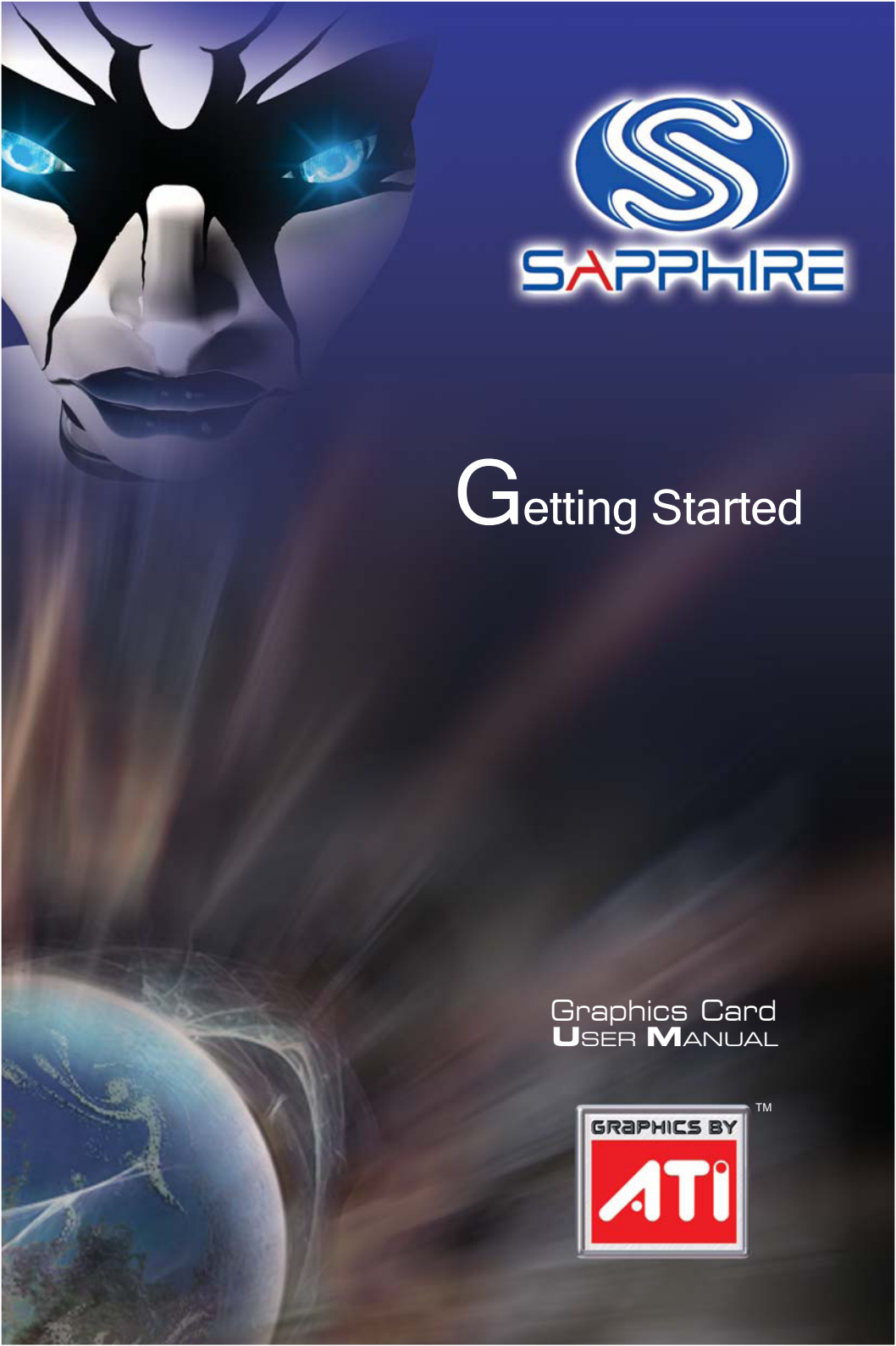
SAPPHIRE
Getting Started
Graphics Card
USER MANUAL
GRAPHICS BY
ATi
™

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Installing Your VGA Card

Preparing Your Computer

Before installing your VGA Card we recommend that you first uninstall the driver for your current video card and reconfigure your operating system to use the standard display driver (VGA) supplied with your operating system. For more information about changing to the VGA driver, see your operating system documentation.

READ ME FIRST

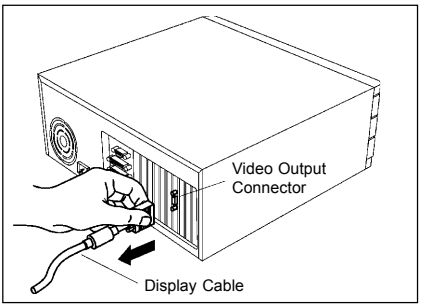
Turn off the power to your system and discharge your body's static electric charge by touching a grounded surface—for example, the metal surface of the power supply—before performing any hardware procedure.

The manufacturer assumes no liability for any damage, caused directly or indirectly, by improper installation of any components by unauthorized service personnel. If you do not feel comfortable performing the installation, consult a qualified computer technician.

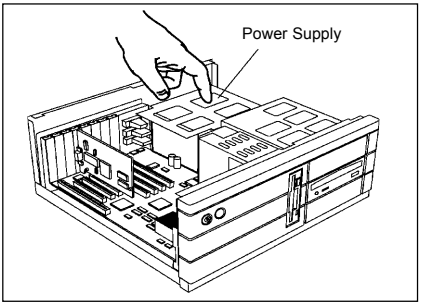
Damage to system components, the accelerator card, and injury to yourself may result if power is applied during installation.

Now that you have prepared your computer, you are ready to install your VGA Card.

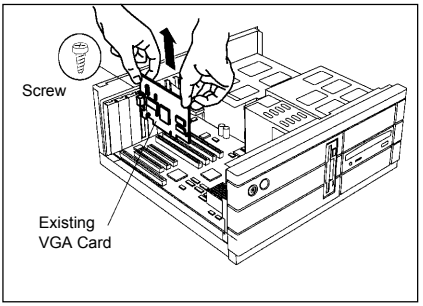
To Install Your VGA Card



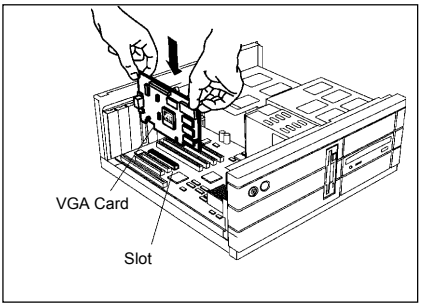
Power off the computer and monitor, then disconnect the display cable from the back of your computer.



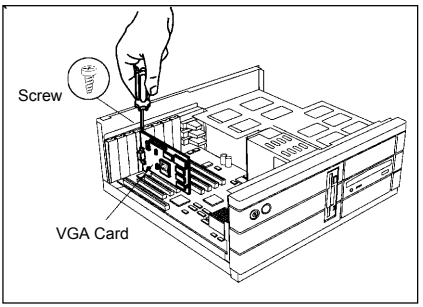
Remove the computer cover.
If necessary, consult your computer's manual for help in removing the cover.
(Remember to discharge your body's static electricity by touching the metal surface of the computer chassis.)



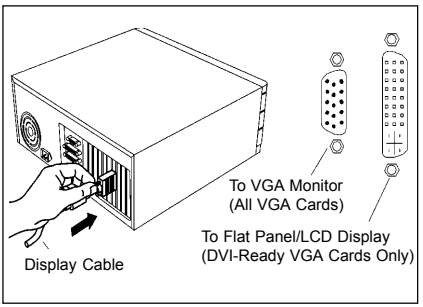
Remove any existing VGA Card from your computer.
Or, if your computer has any on-board graphics capability, you may need to disable it on the motherboard. For more information, see your computer documentation.
(If the old VGA Card sticks, rock it gently from end to end. Remember to save the screw.)



Locate the slot. If necessary, remove the metal cover from this slot; then align your VGA Card with the AGP/PCI slot, and press it in firmly until the card is fully seated.
(Grasp the VGA Card by the top edge and carefully seat it into the slot. Ensure that the metal contacts are completely pushed into the slot.)



Replace the screw to fasten the card in place, and replace the computer cover.



Plug the display cable into VGA Card; then turn on the computer andmonitor. If your VGA Card came with a DVI connector, you can connect a flat panel display to the appropriate connector, as shown ...
(Make sure all cables are securely connected.)

Driver Installation

You are now ready to proceed with the installation of the VGA Card driver.

Windows® "New Hardware Found"

New hardware will be detected after you restart your computer. To finish setting up your hardware click Yes when prompted to restart.

To Identify New Hardware in Windows® 98SE, Windows® Me, Windows® 2000 and Windows® XP

1 Windows® may launch the "Update Device Driver Wizard" to install the Standard VGA Driver. If it does, follow the step-bystep instructions below to allow Windows® to correctly identify your new hardware.
If the Wizard does not appear, proceed directly to **"Installing the VGA Card Driver for Windows® 98SE, Windows® Me,Windows® 2000 and Windows® XP".**
2 Click **Next**.
3 Click **Finish**.
4 Insert your **Windows®** CD into your CD-ROM drive.
5 Click **OK**.
6 Type the following:
D:\SETUP
(If **D** is not your CD-ROM drive, substitute **D** with the correct drive letter.)
7 Click **OK**.
8 Click **Yes** to restart your computer.

You are now ready to install the VGA Card driver. Proceed to **"Installing the VGA Card Driver for Windows® 98SE, Windows® Me,Windows® 2000 and Windows® XP".** and follow the step-by-step instructions to complete the installation.

Installing the VGA Card Driver for Windows® 98SE, Windows® Me, Windows® 2000 and Windows® XP

1 Insert the VGA CARD INSTALLATION CD into your CD-ROM drive.
If Windows® runs the CD automatically, proceed to step 6.
2 Click **Start**.
3 Select **Run**.
4 Type the following:
D:\ATISETUP
(If **D** is not your CD-ROM drive, substitute **D** with the correct drive letter.)
5 Click **OK**.
6 Click on **ATI Easy Install** to begin the Installation Wizard.
7 Click **Next.**
8 Click **Yes** to the license agreement.
9 Follow the Wizard's on-screen instructions to complete the installation.

The Express installation option is recommended. If your VGA Card includes a multimedia component, the software for that component will automatically be installed, along with the ATI driver, by selecting this option.

Using TV Out

View Your PC's Display on a Television!

If your VGA Card has TV Out capability. Just attach your VGA Card to a television, a monitor, or both. You can even attach your VGA Card to your VCR and record your computer's display. Television display is ideal for playing games, giving presentations, watching movies, and browsing the Internet. The following tips will help you get the most out of your TV Out feature.

To connect your computer to a television or a VCR, attach a connector cable from the television (or VCR) to your VGA Card. Most televisions and VCRs have a Composite video input, also referred to as a phono jack or RCA input. A growing number of televisions and VCRs have another type of video input called S-Video or S-VHS. An S-Video connection produces a higher quality display than Composite video. If your television has cable input only, which is the case on older units, you can connect your VGA Card to your television using your VCR or an RF modulator (available in most electronics stores).

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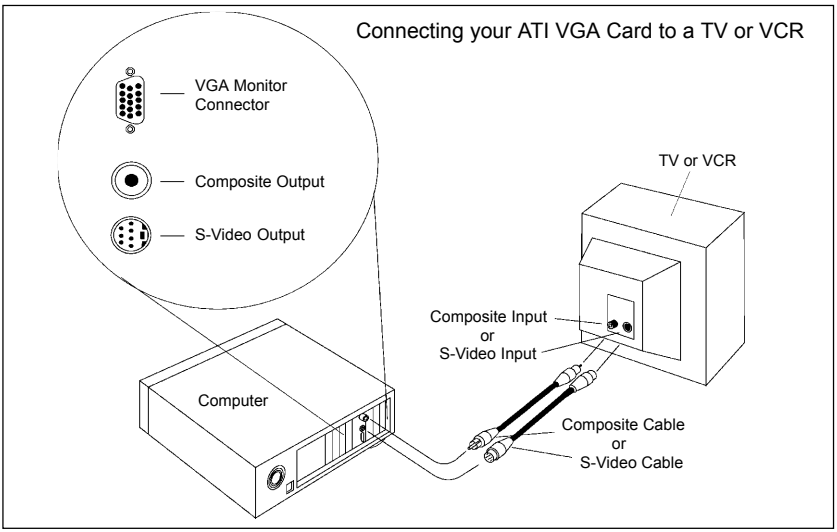
IMPORTANT INFORMATION for European Customers

- Some PC monitors in Europe **cannot** be used simultaneously with television display. When you enable television display in Europe, the refresh rate for the monitor and television is set to 50Hz. Some monitors may not support this refresh rate and could be damaged.
  Please check the documentation supplied with your monitor to see if your monitor supports a refresh rate of 50Hz. **If your** monitor does not support 50 Hz (or you are not sure), then turn off your monitor before turning on your computer when using your television as a display.
  For information about how to disable television display, see **"Enabling and Disabling the Television Display"**.
- Some televisions in Europe may use a SCART connection. If you use SCART, please read **"Using SCART Connectors for European Televisions"** before attempting to connect your PC to your television.

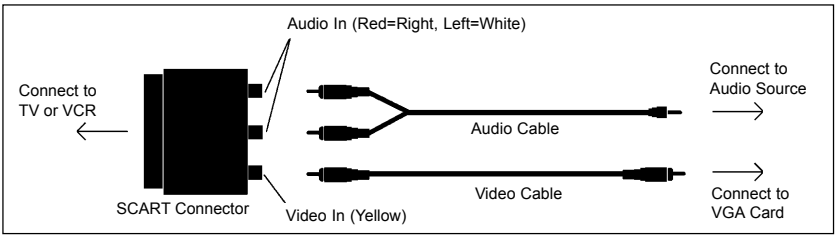
Connecting Your VGA Card to a Television or VCR

1. Turn off your computer and your television or VCR.
2. Ensure your VGA Card is installed correctly.
3. Determine if your television or VCR has an S-Video or Composite video connection.
4. Looking at the back of your computer, locate your VGA Card. Using an S-Video or Composite cable, attach one end of the cable to your VGA Card and the other to your television or VCR.
5. Turn on your computer and your television or VCR.
6. To turn your television display on and off.
   If there is no display on your television, you may need to switch your television to video display. For more information, see the documentation supplied with your television. If you have a television connected to your VCR, you can use the television as your computer's display. For information about connecting a television to your VCR, see the documentation that came with your VCR.



Using SCART Connectors for European Televisions

The SCART connector supports only the Composite video format, which is the most common type. If your television supports S-Video (also called S-VHS) video input, you should use an S-Video cable (available in most consumer electronic stores) to view your PC on a television. An S-Video connection produces a higher quality display than Composite video.



Enabling and Disabling the Television Display

1. Start Windows®.
2. Click **Start**.
3. ***For Win®98/Me/2000*** - Point to **Settings**, then click **Control Panel**.
   For Win® XP - Click **Control Panel**, then click **Appearance and Themes**.
4. Double-click **Display**.
5. Click on the **ATI Displays** tab. Windows® 98 / 2000 users: Click on the **Settings** tab and then the **Advanced** button, before clicking the **Displays** tab.
6. Click on the green **enable/disable** button next to the word “TV” to enable/disable television display.
7. Click **OK** or **Apply** to save the changes you have made.
   For information about how to use television display and the ATI Displays Properties page, click the **Help** button.

Starting Windows® with Television Display Enabled

The television screen may become scrambled temporarily during the initial Windows® logo display. This is only a temporary effect and your television screen will be restored within a few seconds. During start up, your TV Out VGA Card will go through a sequence of mode settings during which your television display will remain blank. This process takes only a few seconds and helps program the television display.

Using a Monitor vs. Using the Television Display

Using your television for your computer's display is ideal for playing games, giving presentations, watching movies, and browsing the Internet. The display on your monitor may change or looked squashed. This occurs because the display adjusts to fit the dimensions of your television. To correct the monitor's display, use the controls on the monitor to adjust the display size and position. Some single frequency monitors may not work with television display enabled. If you experience problems when television display is enabled, disable television display to restore your monitor's display.

Adjusting Monitor Display

The size of the display on your monitor may be smaller and not perfectly centered when you have television display enabled. These effects are caused by the changes required to provide a proper display on the television. Use the controls available on the Adjustments tab on the Monitor Properties page (click on the **Monitor** button on the ATI Displays page) to adjust the display on your monitor only. Click on the **Television** button to adjust the television display only.

Viewing Text on Television

Due to the different technology used in the manufacturing of televisions and PC monitors, standard PC text may look too small on your television. You can compensate for this by using larger fonts.

To Use Larger Display Fonts

1. Start Windows®.
2. Click **Start**.
3. **For Win®98/Me/2000** - Point to **Settings**, then click **Control Panel**.
   For Win® XP - Click **Control Panel**, then click **Appearance and Themes**.
4. Double-click **Display**.
5. Click on the **Settings** tab.
6. In the **General** box, select the size you want your displayed fonts to be.
7. Click **OK** or **Apply**; then follow the onscreen instructions to save your new settings.

Reducing Edge Distortion

When using a television for your PC's display, you may see some edge distortion on the left and right side of your television screen. This effect depends on your television and the PC application you are running.

To reduce edge distortion, you can increase the horizontal size.

To Increase the Horizontal Size

1 Start Windows®.
2 Click **Start**.
3 ***For Win®98/Me/2000*** - Point to **Settings**, then click **Control Panel**.
For Win® XP - Click **Control Panel**, then click **Appearance and Themes**.
4 Double-click **Display**.
5 Click on the **Displays** tab.
Windows® 98 / 2000 users: Click on the Settings tab and then the Advanced button, before clicking the Displays tab.
6 Click on the **TV** button.
7 Click on the **Adjustments** tab.
8 Click on the plus (**+**) button under Horizontal Screen to increase the horizontal size of the television display.
9 Click **OK** or **Apply** to save the changes you have made.

You can also reduce edge distortion by reducing the brightness.

To Change the Brightness

1 Start Windows®.
2 Click **Start**.
3 ***For Win®98/Me/2000*** - Point to **Settings**, then click **Control Panel**.
For Win® XP - Click **Control Panel**, then click **Appearance and Themes**.
4 Double-click **Display**.
5 Click on the **Displays** tab.
Windows® 98 / 2000 users: Click on the Settings tab and then the Advanced button, before click the Displays tab.
6 Click on the **TV** button.
7 Drag the **Brightness slider** to the left to decrease the brightness.
8 Click **OK** or **Apply** to save the changes you have made.

Changing Display Configurations

If you move your computer to a place where you are using television display only, make sure that you have the television display feature enabled; see **"Enabling and Disabling the Television Display"**
If you change your display mode, television display is disabled beyond the 800x600 mode. If a television is your only display device and a non-supported mode is selected, the display on your television will disappear. Try pressing ESC or wait for 15 seconds to see if your display will return. If your display does not return, you will need to hook up a monitor to your computer to re-enable television display.

Using Games and Applications

Some older games and applications may program the graphics card directly to run under a specific display mode. This may cause your television display to turn off automatically or become scrambled (the PC monitor will not be affected). Your television display will be restored once you exit the game or if you restart your system.

Using the Online Manual

The VGA Card comes with an online manual that describes its advanced features. The **Online Manual** provides reference, specification, disclaimer, legal, and compliance information that is not contained in this guide.

To Open the Online Manual

1. Insert the VGA CARD INSTALLATION CD into your CD-ROM drive.
   If Windows® runs the CD automatically, proceed to step 6.
2. Click **Start**.
3. Select **Run**.
4. Type the following:
   D:\ATISETUP
   (If **D** is not your CD-ROM drive, substitute **D** with the correct drive letter.)
5. Click **OK**.
6. Click **Online User Manual**.

Troubleshooting Tips

The following troubleshooting tips may help if you experience problems. Contact your dealer for more advanced troubleshooting information.

- Check that the card is seated properly in the slot.
- Ensure the display cable is securely fastened to the card's display connector.
- Make sure that the monitor and computer are plugged in and receiving power.
- If necessary, disable any built-in graphics capabilities on your motherboard. For more information, consult your computer's manual or manufacturer. (NOTE: Some manufacturers do not allow the built-in graphics to be disabled or to become the secondary display.)
- Make sure you selected the appropriate display device and graphics card when you installed the VGA driver.
- For more troubleshooting tips, right-click the ATI icon in the taskbar and select **Troubleshooting**.
- If you have problems during bootup, start your computer in **Safe Mode**. In Windows® 98SE and Windows® Me, press and hold the CTRL key until the Microsoft® Windows® Startup Menu appears on the screen. Then select the number for **Safe Mode**, and press Enter. (You can also use F8 to bring up the Microsoft Windows® Startup Menu.) In **Safe Mode**, bring up the **Device Manager** and check for duplicate display adapter and monitor entries if you are only using one graphics card.
- For more assistance, use the **Troubleshooting Guide** located in the Windows® Help or contact your computer manufacturer.